

TELOCATOR



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ORIGINAL

The Personal Communications Industry Association

October 23, 1992

Donna R. Searcy
Secretary
Federal Communications Commission
1919 M Street NW
Washington DC 20554

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OCT 23 1992

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

RE: Ex parte communication on GEN Docket No. 90-314 (PCS)

Dear Ms. Searcy:

This afternoon, representatives of Telocator met, in separate meetings, with Brian Fontes (Commissioner Quello's office), Charla Rath (Chairman Sike's office), Robert Branson (Commissioner Barrett's office) and Linda Oliver (Commissioner Duggan's office) and briefed them on current industry standards development efforts in the area of Personal Communications Services. Attached is a copy of the presentation.

Participating on behalf of Telocator were: Thomas A. Stroup, President, Dr. Charles C. Bailey (Southwestern Bell Telephone), Chairman of Telocator's PCS Section Technical and Engineering Committee; Anne Phillips, Director of PCS; and myself.

Sincerely yours,

Mark J. Golden
Vice President, Government Relations

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PCS STANDARDS ACTIVITIES

**STATUS REPORT TO THE
FEDERAL COMMUNICATIONS COMMISSION
by
TELOCATOR PCS SECTION -
TECHNICAL & ENGINEERING COMMITTEE**

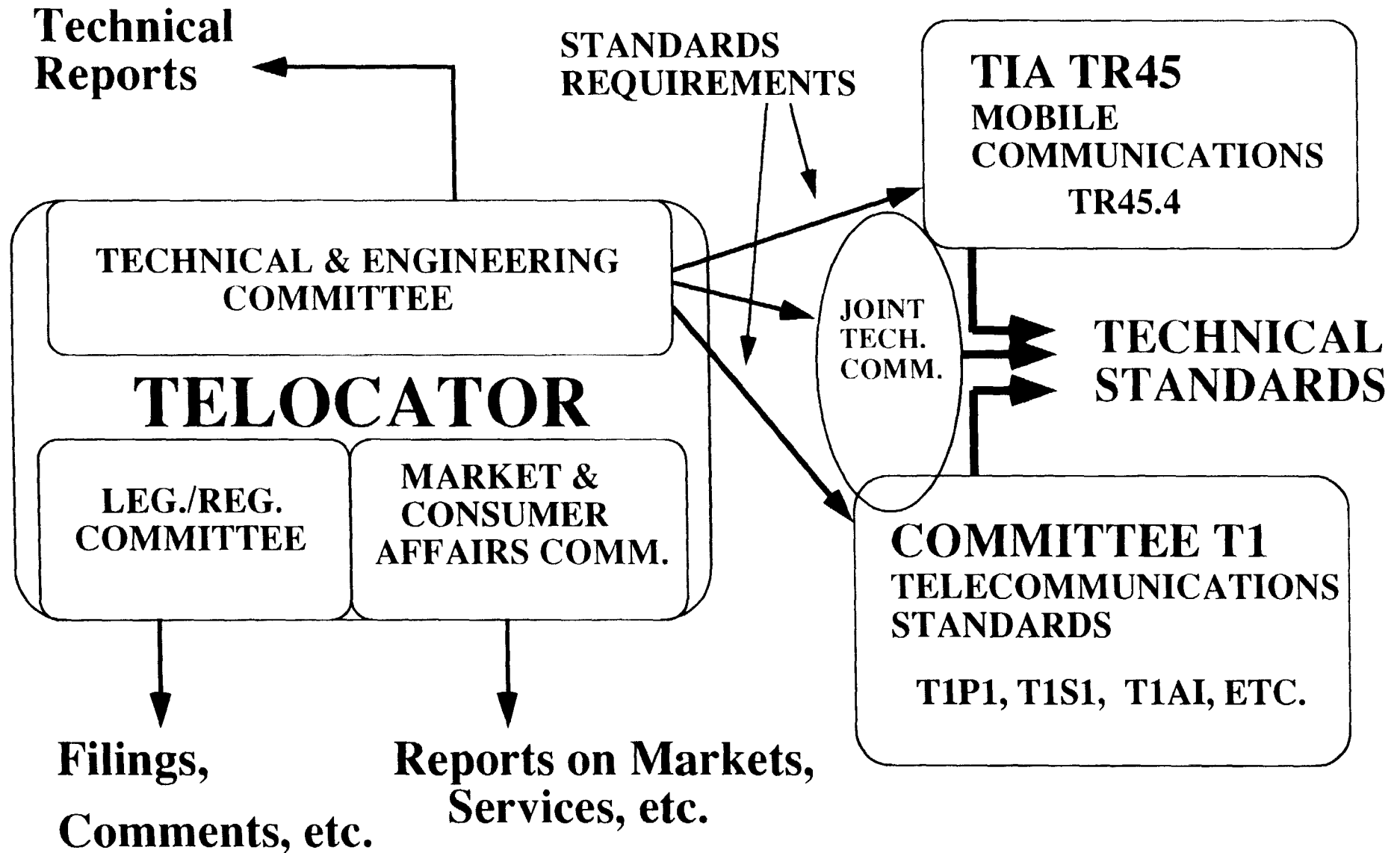
October 23, 1992

PCS STANDARDS ACTIVITIES

OUTLINE

- **OVERVIEW OF THE PLAYERS**
 - STANDARDS BODIES & INDUSTRY ASSOCIATIONS
- **TELOCATOR'S VIEW OF STANDARDS**
- **MAJOR ISSUES**
 - AIR INTERFACE STANDARDS
 - SPECTRUM SHARING
 - ROAMING/INTEROPERABILITY
 - UNIFORMITY
- **THE PCS VISION & INDUSTRY'S COMMITMENT**
 - THE OVERARCHING PCS VISION
 - INDUSTRY COMMITMENT & MANAGEMENT

TELOCATOR & STANDARDS BODIES



PCS STANDARDS ACTIVITIES

TELOCATOR'S VIEW OF STANDARDS

- **Flexible technical regulations are warranted that allow the industry to pursue standards as the need arises**
- **The FCC should focus on licensing, enforcement, equipment certification, and the adoption of standards developed by the industry**

PCS STANDARDS UPDATE

MAJOR PCS STANDARDS ISSUES

- **AIR INTERFACE STANDARDS
(COMMON AIR INTERFACE)**
- **SPECTRUM SHARING**
- **ROAMING/INTEROPERABILITY**
- **UNIFORMITY OF SERVICES**

AIR INTERFACE STANDARDS

GOALS:

- MINIMUM NUMBER OF AIR INTERFACES
- MAXIMUM PROVIDER EFFICIENCY
- MAXIMUM USER CONVENIENCE

WHO

WHAT

TELOCATOR

ISSUED REQUIREMENTS FOR PCS AIR
INTERFACE

T1 AND TIA TR45

FORMED TECHNICAL COMMITTEES ON AIR
INTERFACE STANDARDS

T1 AND TIA TR45

FORMED JOINT TECHNICAL COMMITTEE TO
DEVELOP SINGLE STANDARD

T1 AND TIA TR45

PLANNED JOINT EXPERTS MEETING TO
DEFINE DETAILED TECHNICAL EFFORT

TELOCATOR

ISSUED REPORT ON AVAILABLE RADIO
ACCESS TECHNOLOGIES

TIMEFRAME: DRAFT STANDARDS AVAILABLE LATE 1993

PCS STANDARDS REQUIREMENTS

Standards Requirements Document - Common Air Interface for PCS:

- **Minimum Number of Interfaces, Each with Broad Applications Potential - Single CAI is the Objective**
- **All Capabilities of the *Service Description* Standards Requirements Document should be Supported**
- **Layered Approach Allows Separation of Service Dependent and Service Independent Requirements**
- **Single Spectrum Etiquette Incorporated as part of Protocol Requirements**
- **Prompt Availability of Stable Draft Standard(s) is Critical**
- **Service/Technology Flexibility For Evolution**

SPECTRUM SHARING

**GOAL: HIGHLY RELIABLE SPECTRUM SHARING
DESIGN CONSISTENT WITH A STANDARDIZED
AIR INTERFACE**

<u>WHO</u>	<u>WHAT</u>
TELOCATOR	RECOMMENDATION TO TIA TR14 ON AREAS REQUIRING WORK
TIA TR14	REVISION OF BULLETIN 10E
JOINT EXPERTS MEETING	DEFINE TECHNICAL OBJECTIVES FOR CONSISTENCY BETWEEN AIR INTERFACE AND SPECTRUM SHARING DESIGNS
TELOCATOR	REPORT ON SPECTRUM SHARING TECHNOLOGIES

TIMEFRAME: DRAFT REVISION OF BULLETIN 10E - OCTOBER, 1992

ROAMING & INTEROPERABILITY

**GOAL: CUSTOMER-FRIENDLY ROAMING AND
INTEROPERABILITY ACROSS THE U. S.**

WHO

WHAT

TELOCATOR

REQUESTED INTEROPERABILITY IN AIR INTERFACE
STANDARDS REQUIREMENTS

TELOCATOR

REQUESTED ROAMING CAPABILITY IN
INTERNETWORK ARCHITECTURE
SPECIFICATION

TIA TR45.2

EXAMINING ENHANCEMENT TO IS-41 (ROAMING)
CELLULAR STANDARD

T1S1

STUDYING SIGNALLING REQUIREMENTS TO
SUPPORT PERSONAL MOBILITY (ROAMING)

TIMEFRAME: DRAFT STANDARDS AVAILABLE LATE '93 OR EARLY '94

PCS UNIFORMITY

**GOAL: UNIFORM PERSON-CENTERED
SERVICES AVAILABLE ACROSS ALL
WIRELESS AND LAND LINE NETWORKS**

WHO

TELOCATOR

**T1, TIA TR45
CCITT,**

CCIR

WHAT

**ISSUED STANDARDS REQUIREMENTS DOCUMENT
LISTING UNIFORM PERSON-CENTERED
SERVICES THAT SHOULD BE STANDARDIZED**

**DEVELOPING UNIFORM PCS SERVICE
DESCRIPTION STANDARDS FOR ALL
NETWORKS**

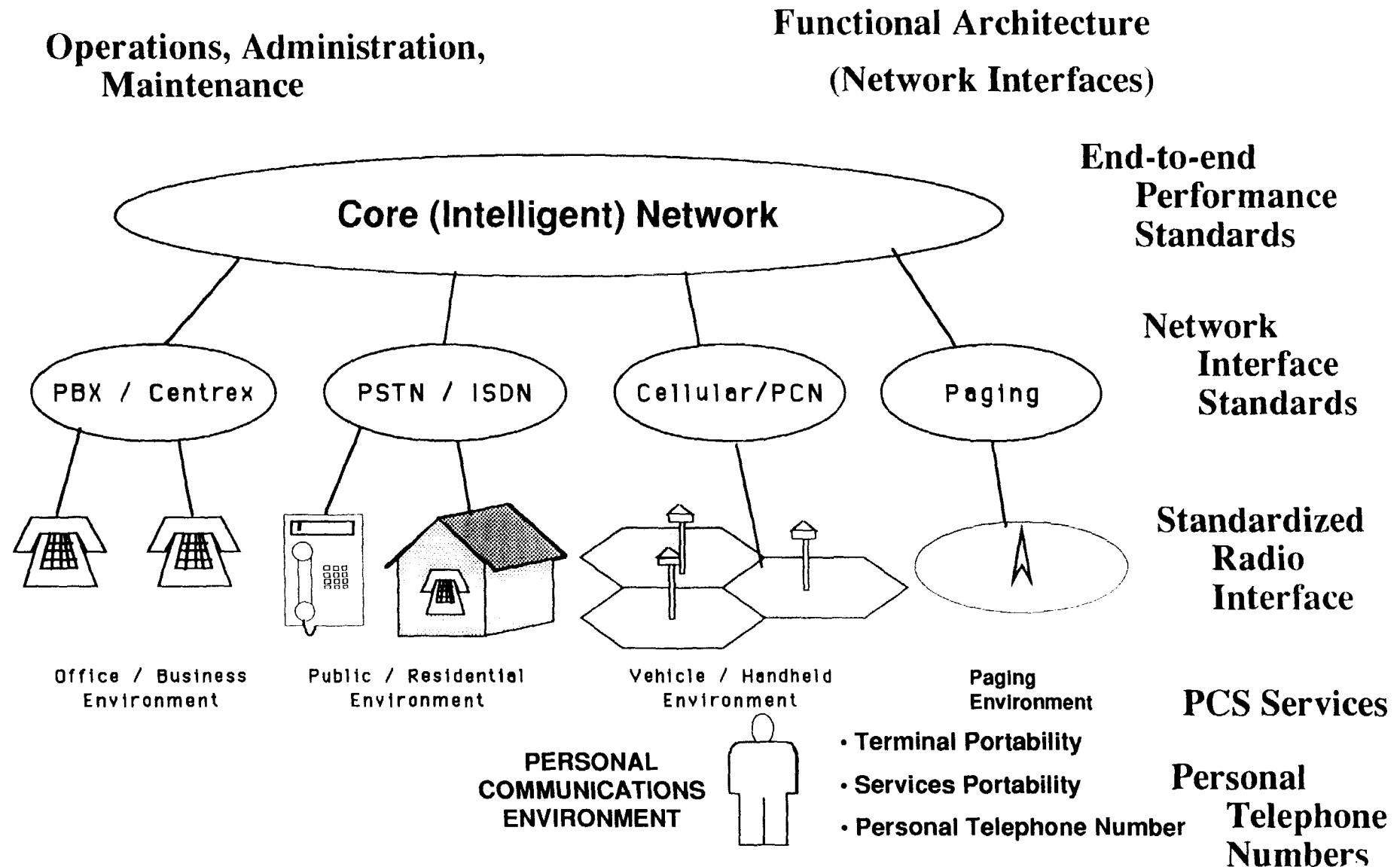
**DEVELOPING UNIFORM SERVICE STANDARDS
FOR WIRELESS NETWORKS**

TIMEFRAME:

SERIES OF DRAFT STANDARDS UNDER DEVELOPMENT -

AVAILABILITY: 2Q93 - 2Q94

Personal Communications Standards



PERSONAL COMMUNICATIONS STANDARDS AREAS

U. S. STANDARDS BODIES

<u>AREA</u>	<u>STANDARDS BODY</u>	<u>AREA</u>	<u>STANDARDS BODY</u>
PCS STANDARDS PLANNING	T1P1 & TIA 45.4	NETWORK INTERFACES	T1E1 & T1S1
SERVICE DEFINITION	T1P1 & TIA 45	OPERATIONS, MAINTENANCE	T1M1
PERSONAL NUMBERS	T1P1	BILLING INTERFACES	TIA 45.2
NETWORK CAPABILITIES	T1S1	PERFORMANCE STANDARDS	T1A1
FUNCTIONAL ARCHITECTURE	T1S1	PCS DATA	IEEE 802.11
RADIO, ACCESS INTERFACES	TIA 45 & T1E1		

Personal Communications Standards

PROGRAM MANAGEMENT TEAM:

**GOAL: APPLY PROGRAM MANAGEMENT
PRINCIPLES TO THE DEVELOPMENT OF PCS
STANDARDS**

TEAM OBJECTIVES:

- **SEEK ACCEPTANCE OF STANDARDS
DEVELOPMENT RESPONSIBILITIES**
- **HARMONIZE SCHEDULES OF DIFFERENT
BODIES**
- **MONITOR PROGRESS OF STANDARDS
DEVELOPMENTS**
- **ASSESS IMPACT OF SCHEDULE CHANGES**
- **FACILITATE LIAISONS BETWEEN BODIES**

DISCUSSION - WHERE DO WE GO FROM HERE?

• THE FCC:

- "Our approach to technical standards should provide the opportunity for these PCS services and technologies to develop fully."
- "Some technical regulation is required to prevent interference between different systems."
- Given the significant work of industry groups and standards organizations on PCS technical issues, "an FCC advisory committee on PCS is not necessary at this time."

• TELOCATOR:

- **FOCUS ON MARKET NEEDS**
 - WHAT DO END USERS WANT?
 - WHAT DO SERVICE PROVIDERS NEED?
- **ASSIST THE STANDARDS PROCESS**
 - PREPARE REQUIREMENTS / MONITOR PROGRESS

• INDUSTRY:

- COMMITTED TO TRIALS, MARKET RESEARCH
- COMMITTED TO DEVELOP INDUSTRY STANDARDS